

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(381/325,324,322,326-328).cccls. and (retention near2 ring) with conform\$3 with ear with canal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:51
L3	3	181/130-135.cccls. and (retention near2 ring) with conform\$3 with ear with canal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:49
L4	0	128/864,866,867.cccls. and (retention near2 ring) with conform\$3 with ear with canal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:51
L5	0	128/864,866,867.cccls. and ring with conform\$3 with ear with canal with por\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:52
L6	0	381/325,324,322,326-328.cccls. and ring with conform\$3 with ear with canal with por\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:52
L7	3	381/325,324,322,326-328.cccls. and ring with conform\$3 with ear with canal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/07 14:52
S1	43	("D355702"   "3197577"   "3415246"   "3457375"   "3598928"   "3872559"   "3881570"   "3976848"   "4160449"   "4193396"   "4253452"   "4293355"   "4434794"   "4440982"   "4553627"   "4582053"   "4774938"   "4800982"   "4870689"   "4879750"   "4937876"   "4945569"   "4953215"   "4972488"   "4987597"   "5074375"   "5099947"   "5105904"   "5113967"   "5131128"   "5133016"   "5166659"   "5188123"   "5203352"   "5278360"   "5293008"   "5319163"   "5327500"   "5401920"   "5452731"   "5488961"   "5530763"   "5535282").PN.	USPAT	OR	OFF	2004/12/30 13:37

## EAST Search History

S2	0	(381/325).ccls. and hydroph\$3 same oleoph\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:44
S3	3	(381/325).ccls. and hydroph\$5 same oleoph\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:07
S5	2	(381/325).ccls. and silicone same polyuretha\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/24 15:33
S6	2	((("5401920") or ("6129174"))).PN.	USPAT; USOCR	OR	OFF	2004/04/24 15:16
S7	12	(381/325).ccls. and porous	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/24 16:30
S8	1	("6134333").PN.	USPAT; USOCR	OR	OFF	2004/04/24 15:55
S9	30	(381/325).ccls. and ear near2 canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 15:12
S10	33	(381/325).ccls. and canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/24 16:36
S11	1	("6137889").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/10/19 13:55
S12	1	("6473513").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/04/23 09:40
S13	0	shennib.in. and hear\$3 same shield	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:33
S14	0	shennib.in. and ear same shield	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:30
S15	0	Shennib.in. and ear same shield	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:30
S16	22	Shennib.in. and ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 19:46
S17	0	intracanal near2 shiel\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:34

## EAST Search History

S18	0	intracanal near4 shiel\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:34
S19	41	(381/325).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/04/24 14:40
S20	0	intracanal same poro\$2 same protect\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:45
S21	3	intracanal same protect\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:47
S22	0	intracanal same poro\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:45
S23	1	intracanal same air	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/23 09:47
S24	43	("D355702"   "3197577"   "3415246"   "3457375"   "3598928"   "3872559"   "3881570"   "3976848"   "4160449"   "4193396"   "4253452"   "4293355"   "4434794"   "4440982"   "4553627"   "4582053"   "4774938"   "4800982"   "4870689"   "4879750"   "4937876"   "4945569"   "4953215"   "4972488"   "4987597"   "5074375"   "5099947"   "5105904"   "5113967"   "5131128"   "5133016"   "5166659"   "5188123"   "5203352"   "5278360"   "5293008"   "5319163"   "5327500"   "5401920"   "5452731"   "5488961"   "5530763"   "5535282").PN.	USPAT	OR	OFF	2006/03/30 10:51
S25	0	"6134333".URPN.	USPAT	OR	OFF	2004/04/23 09:56
S26	377	(181/135).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/24 17:04
S27	45	shennib.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:33
S28	5	"insonus".AS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:38

## EAST Search History

S29	0	(381/325).ccls. and hydroph\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:48
S30	1	("5401920").PN.	USPAT	OR	OFF	2004/12/30 13:42
S31	12	(381/325).ccls. and conform\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 12:37
S32	5	(381/325).ccls. and hydroph\$6	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/30 13:48
S33	18	("3881570").URPN.	USPAT	OR	OFF	2004/12/30 15:09
S34	2	(381/325).ccls. and deeply adj2 insert\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/03 09:51
S35	7	("1683316"   "4006796"   "4539440"   "5979589"   "6275596"   "6359993").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/03 09:49
S36	2	(381/325).ccls. and deeply adj2 canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/03 09:51
S37	8	(381/325).ccls. and deep\$2 adj3 canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/03 09:51
S38	19	("4870689").URPN.	USPAT	OR	OFF	2005/01/03 09:56
S39	4	((("4987597") or ("6134333") or ("6129174") or ("5401920"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/10/19 17:05
S40	2	((("4196758") or ("5488961"))).PN.	USPAT	OR	OFF	2005/10/19 14:07
S41	2	((("4916758") or ("5488961"))).PN.	USPAT	OR	OFF	2006/03/30 14:20
S42	326	(128/864,867).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/28 14:39
S43	163	(128/866).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 14:13
S44	19	(128/864,867,866).ccls. and (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:08
S45	0	("128"/\$).ccls. and (hearing adj2 aid) same intracanal same (seal or shield) same (pores or porous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:09
S46	0	("128"/\$).ccls. and (hearing adj2 aid) same intracanal same (pores or porous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:09

## EAST Search History

S47	0	("128"/\$).ccls. and (hearing adj2 aid) same (seal or shield) same (pores or porous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:10
S48	3	(hearing adj2 aid) same (seal or shield) same (pores or porous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:13
S49	15	(hearing adj2 aid) same (cartilag\$7) same (pores or porous)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:15
S50	11	(hearing adj2 aid) same (cartilag\$7) and infection	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:25
S51	2	(ear) same (intracanal) same (seal or shield or guard or protect\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 15:29
S52	14	air with circula\$5 with reduc\$5 with infection	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 16:46
S53	430	pores with "1" with "10" with microns	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 16:47
S54	2	(pores with "1" with "10" with microns) and ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 16:47
S55	92	(pores with "1" with "10" with microns) same membrane	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 13:01
S56	3	S39 and disposable	USPAT	OR	OFF	2005/10/19 17:07
S57	93	disposable with (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/19 17:12
S58	1063	ear same (cap or shield or cover\$3 or guard or protect\$3) same canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/24 17:00
S59	195	ear same (cap or shield or cover\$3 or guard or protect\$3) same canal and (remov\$6 and flexible) and (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/24 17:01

## EAST Search History

S61	33	("3665122"   "4375016"   "4553627"   "4569812"   "4756312"   "4869339"   "4879750"   "4880076"   "4937876"   "5002151"   "5031219"   "5084224"   "5099947"   "5105904"   "5166659"   "5201007"   "5203352"   "5293008"   "5295191"   "5327500"   "5395168"   "5401920"   "5440082"   "5654530"   "5682020"   "5701348"   "5748743"   "5835606"   "5875254"   "5881159"   "5920636"   "5979589"   "5996584").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 17:10
S62	0	(381/325,324,322,326-328).ccls. and elastromic with biocompatible	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 12:41
S63	318	(181/130).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/27 12:38
S64	0	(181/130,135).ccls. and elastromic with biocompatible	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 12:41
S65	0	(181/130,135).ccls. and elastomeric with biocompatible	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 12:41
S66	0	(381/325,324,322,326-328).ccls. and elastomeric with biocompatible	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 12:34
S67	15	(381/325,324,322,326-328).ccls. and rubber with (guard or shield or cap or retainer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 13:02
S68	17	(381/325,324,322,326-328).ccls. and (rubberor elast\$6) same (guard or shield or cap or retainer) same (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 12:45
S69	0	(381/325,324,322,326-328).ccls. and (pores with "50" with "250" with microns) same (thickness or width)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 13:02
S70	0	(381/325,324,322,326-328).ccls. and (pores with ("50" or "75" or "100" or "125" or "200" or "225" or "250") with microns) same (thickness or width)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 18:32
S71	0	(181/130-135).ccls. and (pores with ("50" or "75" or "100" or "125" or "200" or "225" or "250") with microns) same (thickness or width)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 15:20

## EAST Search History

S72	58	(381/325).ccls. and ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 16:26
S73	311	(181/129).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 15:19
S74	264	(181/129,130-135).ccls. and (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 15:32
S75	1	("5701348").PN.	USPAT	OR	OFF	2006/03/27 15:32
S76	30	("5701348").URPN.	USPAT	OR	OFF	2006/03/27 15:34
S77	12	("4916758").URPN.	USPAT	OR	OFF	2006/03/27 16:33
S78	879	(381/325,324,322,326-328).ccls. and (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 18:33
S79	64	(381/325,324,322,326-328).ccls. and (hearing adj2 aid) and canal and biocompat\$7	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 18:36
S80	142	(381/325,324,322,326-328).ccls. and (hearing adj2 aid) and canal and elast\$7	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/27 18:36
S81	657	ear same (guard cap protect\$3) same canal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 18:03
S82	330	(128/864,867).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 18:17
S83	28	S82 and porous	USPAT	OR	OFF	2006/03/28 14:40
S84	87	ear same (guard cap protect\$3) same canal same ((vibra\$3 with filament) or (tympanic))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/28 15:25
S85	1	("4972488").PN.	USPAT	OR	OFF	2006/03/29 11:37
S86	0	(600/830).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 18:13
S87	133	(128/831).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 18:13
S88	241	(128/864).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 18:18
S89	19	S88 and porous	USPAT	OR	OFF	2006/03/29 18:18
S90	2	((("5828012") or ("6512834"))).PN.	USPAT	OR	OFF	2006/03/29 19:47

## EAST Search History

S91	43	("D355702"   "3197577"   "3415246"   "3457375"   "3598928"   "3872559"   "3881570"   "3976848"   "4160449"   "4193396"   "4253452"   "4293355"   "4434794"   "4440982"   "4553627"   "4582053"   "4774938"   "4800982"   "4870689"   "4879750"   "4937876"   "4945569"   "4953215"   "4972488"   "4987597"   "5074375"   "5099947"   "5105904"   "5113967"   "5131128"   "5133016"   "5166659"   "5188123"   "5203352"   "5278360"   "5293008"   "5319163"   "5327500"   "5401920"   "5452731"   "5488961"   "5530763"   "5535282").PN.	USPAT	OR	OFF	2006/03/30 11:01
S92	2	S91 and (protect\$3 same (water liquids)) and porous	USPAT	OR	OFF	2006/03/30 14:31
S93	79	(hydrophobic same oleophobic) and (protect\$3 same (water liquids)) and porous	USPAT	OR	OFF	2006/03/30 10:53
S94	3	(hydrophobic same oleophobic) and (protect\$3 same (water liquids)) and porous and (ear canal)	USPAT	OR	OFF	2006/03/30 10:54
S95	3	(hydrophobic same oleophobic) and (protect\$3 same (water liquids)) and porous and ear	USPAT	OR	OFF	2006/03/30 10:54
S96	7	(hydrophobic same oleophobic) and (protect\$3 same (water liquids)) and porous and ear	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 10:58
S97	1	("4987597").PN.	USPAT	OR	OFF	2006/03/30 10:55
S98	171	(hydrophobic same oleophobic) same (porous polyurethane)	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 10:58
S99	3	(hydrophobic same oleophobic) same (porous polyurethane) and ear	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 10:58
S100	37	(hydrophobic same oleophobic) and (porous polyurethane) and ear	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 11:00
S101	0	(hydrophobic same oleophobic) and (porous polyurethane) and earplug	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 11:00

## EAST Search History

S10 2	0	(hydrophobic and oleophobic) and (porous polyurethane) and earplug	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 11:00
S10 3	0	hydrophobic and oleophobic and (porous polyurethane) and earplug	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/03/30 11:01
S10 4	0	oleophobic same earplug	USPAT	OR	OFF	2006/03/30 11:02
S10 5	0	oleophobic and earplug	USPAT	OR	OFF	2006/03/30 11:04
S10 6	2	((("6512834") or ("5828012")).PN.	USPAT	OR	OFF	2006/03/30 11:04
S10 7	1	S106 and ear	USPAT	OR	OFF	2006/03/30 11:10
S10 8	0	S106 and flexible	USPAT	OR	OFF	2006/03/30 11:11
S10 9	2596	flexible same (porous microporous) same (membrane cover shield protect\$3)	USPAT	OR	OFF	2006/03/30 11:11
S11 0	530	flexible same (porous microporous) same (membrane cover shield protect\$3) and (hydrophobic oleophobic)	USPAT	OR	OFF	2006/03/30 11:12
S11 1	32	flexible same (porous microporous) same (membrane cover shield protect\$3) and (hydrophobic oleophobic) and sound	USPAT	OR	OFF	2006/03/30 11:13
S11 2	541	(flexible conform\$3) same (porous microporous) same (membrane cover shield protect\$3) and (hydrophobic oleophobic) and (water liquids)	USPAT	OR	OFF	2006/03/30 11:16
S11 3	22	(flexible conform\$3) same (porous microporous) same (membrane cover shield protect\$3) and (hydrophobic oleophobic) and (water liquids) and ear	USPAT	OR	OFF	2006/03/30 11:17
S11 4	1227	(381/325,324,322,326-328).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 13:49
S11 5	0	("earplugand(porouspolyurethane)and(elasticrubberelastomericconform\$3flexible)").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 13:50
S11 6	3	(381/325).ccls. and hydropho\$5 same oleopho\$3 and (porous polyurethane)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:08

## EAST Search History

S11 7	5	(381/322,326-328).ccis. and hydroph\$5 same oleopho\$3 and (porous polyurethane)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:09
S11 8	57	earplug and (porous polyurethane) and (elastic rubber elastomeric conform\$3 flexible)	USPAT	OR	OFF	2006/03/30 14:09
S11 9	1	("6145226").PN.	USPAT	OR	OFF	2006/03/30 14:23
S12 0	0	("(airwithcirculation)same(prevent\$3withinfection)sameear").PN.	USPAT	OR	OFF	2006/03/30 14:23
S12 1	1	(air with circulation) same (prevent\$3 with infection) same ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:24
S12 2	1	(air same circulation) same (prevent\$3 with infection) same ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:25
S12 3	17	(air same circulation) same (prevent\$3 with infection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/30 14:25
S12 4	19	("3811437"   "4160449"   "4702238"   "4774938"   "4852684"   "5044463"   "5119833"   "5203352"   "5207827"   "5298692"   "5572594"   "5573015"   "5718244"   "5792998"   "5811742"   "5904143"   "5988313"   "D371193"   "RE29487").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/30 15:19
S12 5	13	("5718244").URPN.	USPAT	OR	OFF	2006/03/30 15:43
S12 6	1	("5352316").PN.	USPAT	OR	OFF	2006/03/30 16:13
S12 7	1	("6129174").PN.	USPAT	OR	OFF	2006/03/30 16:13